#16

1642

RAW SEQUENCE LISTING DATE: 12/07/2001
PATENT APPLICATION: US/09/529,206B TIME: 09:55:24

Input Set : A:\20264261.app
Output Set: N:\CRF3\12072001\I529206B.raw

<110> APPLICANT: Wang Rong, Fu
Rosenberg, Steven
<120> TITLE OF INVENTION: Novel Human Cancer Antigen NY ESO-1/CAG-3 and Gene Encoding Same
<130> FILE REFERENCE: 20264269US1
<140> CURRENT APPLICATION NUMBER: 09/529,206B
<141> CURRENT FILING DATE: 2000-06-13
<150> PRIOR APPLICATION NUMBER: PCT/US98/19609
<151> PRIOR FILING DATE: 1998-09-21
<150> PRIOR APPLICATION NUMBER: US60/061,428
<151> PRIOR FILING DATE: 1997-10-08
<160> NUMBER OF SEQ ID NOS: 127
<170> SOFTWARE: PatentIn Ver. 2.1
<210> SEQ ID NO: 1
<211> LENGTH: 805
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
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gacgggcgat gctgatggcc caggaggccc tggcattcct gatggcccag ggggcaatgc 180
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gcctcctccc ctagggaatg gtcccagcac gagtggccag ttcattgtgg gggcctgatt 720
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cgaaaaaaaa aaaaaaaaaa aaaaa 805

<210> SEQ ID NO: 2
<211> LENGTH: 540
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
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<210> SEQ ID NO: 3

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64 <211> LENGTH: 180
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapiens
68 <400> SEQUENCE: 3
69 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp
70 1 5 10 15
72 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly
73 20 25 30
75 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Pro Gly Pro Arg Gly Ala
76 35 40 45
78 Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg Gly Pro
79 50 55 60
81 His Gly Gly Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg Cys Gly Ala
82 65 70 75 80
84 Arg Gly Pro Glu Ser Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe
85 85 90 95
87 Ala Thr Pro Met Glu Ala Glu Leu Ala Arg Arg Ser Leu Ala Gln Asp
88 100 105 110
90 Ala Pro Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val
91 115 120 125
93 Ser Gly Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala Asp His Arg Gln
94 130 135 140
96 Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met
97 145 150 155 160
99 Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser
100 165 170 175
102 Gly Gln Arg Arg
103 180
106 <210> SEQ ID NO: 4
107 <211> LENGTH: 174
108 <212> TYPE: DNA
109 <213> ORGANISM: Homo sapiens
111 <400> SEQUENCE: 4
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113 caggagaggc gggtgccacg ggcggcagag gtccccgggg cgcaggggca gcaagggcct 120
114 cggggccggg aggaggcgcc ccgcggggtc cgcatggcgg cgcggcttca gggc 174
117 <210> SEQ ID NO: 5
118 <211> LENGTH: 58
119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 5
123 Met Leu Met Ala Gln Glu Ala Leu Ala Phe Leu Met Ala Gln Gly Ala
124 1 5 10 15
126 Met Leu Ala Ala Gln Glu Arg Arg Val Pro Arg Ala Ala Glu Val Pro
127 20 25 30
129 Gly Ala Gln Gly Gln Gln Gly Pro Arg Gly Arg Glu Glu Ala Pro Arg
130 35 40 45
132 Gly Val Arg Met Ala Ala Arg Leu Gln Gly
133 50 55

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Input Set : A:\20264261.app
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<210> SEQ ID NO: 6
<211> LENGTH: 9
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<213> ORGANISM: Homo sapiens
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1 5
<210> SEQ ID NO: 7
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 7
Thr Pro Met Glu Ala Glu Leu Ala Arg
1 5
<210> SEQ ID NO: 8
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 8
Pro Met Glu Ala Glu Leu Ala Arg Arg
1 5
<210> SEQ ID NO: 9
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 9
Gly Ala Thr Gly Gly Arg Gly Pro Arg
1 5
<210> SEQ ID NO: 10
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
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Gly Pro Arg Gly Ala Gly Ala Ala Arg
1 5
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<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
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Leu Ala Gln Pro Pro Ser Gly Gln Arg
1 5
<210> SEQ ID NO: 12
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 12
Val Ser Gly Asn Ile Leu Thr Ile Arg
1 5

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Input Set : A:\20264261.app
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206 <210> SEQ ID NO: 13
207 <211> LENGTH: 9
208 <212> TYPE: PRT
209 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 13
212 Ile Arg Leu Thr Ala Ala Asp His Arg
213 1 5
216 <210> SEQ ID NO: 14
217 <211> LENGTH: 9
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 14
222 Ser Gly Pro Gly Gly Gly Ala Pro Arg
223 1 5
226 <210> SEQ ID NO: 15
227 <211> LENGTH: 10
228 <212> TYPE: PRT
229 <213> ORGANISM: Homo sapiens
231 <400> SEQUENCE: 15
232 Thr Val Ser Gly Asn Ile Leu Thr Ile Arg
233 1 5 10
236 <210> SEQ ID NO: 16
237 <211> LENGTH: 10
238 <212> TYPE: PRT
239 <213> ORGANISM: Homo sapiens
241 <400> SEQUENCE: 16
242 Thr Ile Arg Leu Thr Ala Ala Asp His Arg
243 1 5 10
246 <210> SEQ ID NO: 17
247 <211> LENGTH: 10
248 <212> TYPE: PRT
249 <213> ORGANISM: Homo sapiens
251 <400> SEQUENCE: 17
252 Ala Thr Pro Met Glu Ala Glu Leu Ala Arg
253 1 5 10
256 <210> SEQ ID NO: 18
257 <211> LENGTH: 10
258 <212> TYPE: PRT
259 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 18
262 Phe Leu Ala Gln Pro Pro Ser Gly Gln Arg
263 1 5 10
266 <210> SEQ ID NO: 19
267 <211> LENGTH: 10
268 <212> TYPE: PRT
269 <213> ORGANISM: Homo sapiens
271 <400> SEQUENCE: 19
272 Thr Pro Met Glu Ala Glu Leu Ala Arg Arg
273 1 5 10

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PATENT APPLICATION: US/09/529,206B TIME: 09:55:24

Input Set : A:\20264261.app
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<210> SEQ ID NO: 20
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<400> SEQUENCE: 20
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<210> SEQ ID NO: 21
<211> LENGTH: 10
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 21
Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg
1 5 10
<210> SEQ ID NO: 22
<211> LENGTH: 10
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 22
Leu Ala Gln Pro Pro Ser Gly Gln Arg Arg
1 5 10
<210> SEQ ID NO: 23
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<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 23
Arg Gly Pro Arg Gly Ala Gly Ala Ala Arg
1 5 10
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<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 24
Leu Asn Gly Cys Cys Arg Cys Gly Ala Arg
1 5 10
<210> SEQ ID NO: 25
<211> LENGTH: 10
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<213> ORGANISM: Homo sapiens
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Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg
1 5 10
<210> SEQ ID NO: 26
<211> LENGTH: 15
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 26
Ala Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg
1 5 10 15

VERIFICATION SUMMARY DATE: 12/07/2001
PATENT APPLICATION: US/09/529,206B TIME: 09:55:25

Input Set : A:\20264261.app
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L:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54